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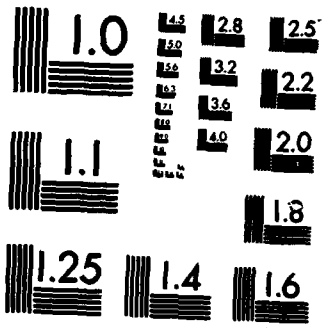

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

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ABSTRACT

The International Conference on Coordination Chemistry was held in the United States. It took place at the University of Colorado, Boulder, on July 29 through August 3, 1984. The number of active participants was 784 and the number of accompaying guests was 145. Thirty-seven countries were represented. Sixty-five percent of the attendees were from the United States, and the remaining thirty-five percent were from other countries. Those areas where the largest interest and most papers were presented are in the areas as follows: 1) Energetics and Dynamics-Kinetics and Mechanisms; 2) Energetics and Dynamics-Electrochemistry/Thermodynamics; 3) Bioinorganic-Metalloenzymes; 4) Synthesis-Special Ligands; 5) Techniques and Applications-Electronic Structure. Final report, AFOSR-84-0094, XXIII International Conference on Coordination Chemistry.

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XXIII International Conference on Coordination Chemistry

FINAL REPORT

AFOSR-84-0094

Dr. Robert Sievers

XXIII

INTERNATIONAL CONFERENCE ON COORDINATION CHEMISTRY

For the first time in 23 years the International Conference on Coordination Chemistry was held in the United States. It took place at the University of Colorado, Boulder, on July 29 through August 3, 1984. The conference was co-sponsored by the University of Colorado, the American Chemical Society and the International Union of Pure and Applied Chemistry.

The number of active participants was 784 and the number of accompaying guests was 145. Thirty-seven countries were represented. Sixty-five percent of the attendees were from the United States, and the remaining thirty-five percent were from other countries.

There were five plenary lectures given by Professor Akio Yamamoto of Japan, Professor Alan Sargeson of Australia, Professor Gunter Wilke of West Germany, Professor Richard Holm of the United States, and Henry Taube of the United States, and recipient of the 1983 Nobel Prize in Chemistry.

Fifty-two session Lectures were presented throughout the week, and over 630 abstracts were given in Poster Presentation Sessions and Poster Discussion Sessions. The topic areas that were discussed were: Energetics and Dynamics, Bioinorganic, Synthesis, Catalysis, and Techniques and Applications. See attached listing of sub-headings for each topic area.

Those areas where the largest interest and most papers were presented were in the areas listed below:

1. Energetics and Dynamics-Kinetics and Mechanisms
2. Energetics and Dynamics-Electrochemistry/Thermodynamics
3. Bioinorganic-Metalloenzymes
4. Synthesis-Special Ligands
5. Techniques and Applications-Electronic Structure

The format for the conference was a new one -- that of posters being presented by the majority of attendees. With only 52 Session Lectures, the primary thrust of information dissemination was

through the Poster Presentation and Discussion format. Each person had the opportunity to have discussion about their work for 1½ hours.

This format was generally well-received, with the major comments being the need for more time.

All but five papers were accepted and printed in the Conference abstracts book. IUPAC will soon be publishing the full Plenary Lectures in the Pure and Applied Journal.

R.E. Sievers
General Chairman

ICCC Emphasis Topics

I. ENERGETICS AND DYNAMICS
- A. Photophenomena in Coordination Chemistry
- B. Reactivity and Redox Pathways—Theory and Experiment—Unusual Oxidation States
- C. Kinetics and Mechanisms of Transition Metal Compound Reactions
- D. Electrochemistry, Thermodynamics
- E. General

II. CATALYSIS
- A. Coordination Chemistry of Surfaces
- B. Promoted Oxygenation
- C. Activation of Small Molecules
- D. General

III. BIOINORGANIC
- A. Nitrogenase
- B. Metalloenzyme Coordination Chemistry
- C. Coordination Chemistry of Iron Transport
- D. General

IV. SYNTHESIS
- A. Ln and Ac Derivatives
- B. Complexes with Special Ligands—Macrocycles, Schiff Bases, Cryptates, Compartmental Ligands
- C. Metals in Polymers—Catalysis and Electrochemistry
- D. Multiple Metal-Ligand Bonds
- E. Metal Clusters
- F. General

V. TECHNIQUES AND APPLICATIONS
- A. Mass Spectrometric Techniques Applied to Coordination Compounds
- B. Electronic Properties and Structure
- C. Environmental Coordination Chemistry
- D. Applications in Medicine
- E. Coordination Chemistry in the Curriculum
- F. General

END

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